Hiroki HOMMA
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Stored in the Absence of the User"
Q66038---Filed August 30, 2001
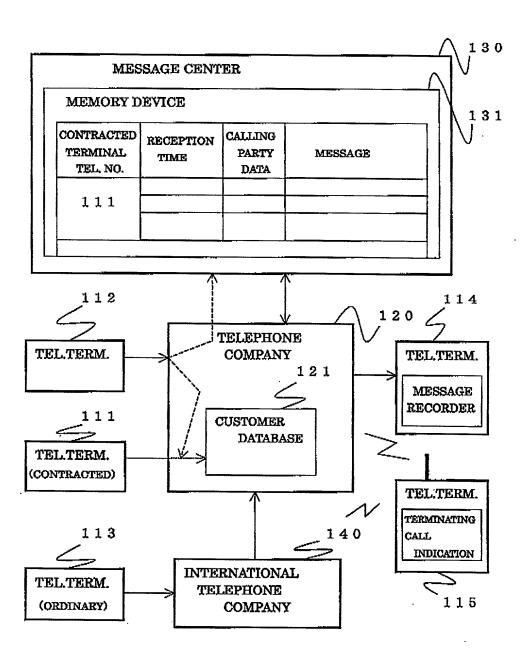Sheets 1 of 13

FIG. 1   PRIOR ART

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**TELEPHONE MESSAGE
SERVICE CENTER**

VOICE MESSAGE STORAGE

VOICE REPRODUCTION

INTERNET SERVER

210

USER

REPRODUCED
VOICE

220

BROWSER

INTERNET

FIG. 2   PRIOR ART

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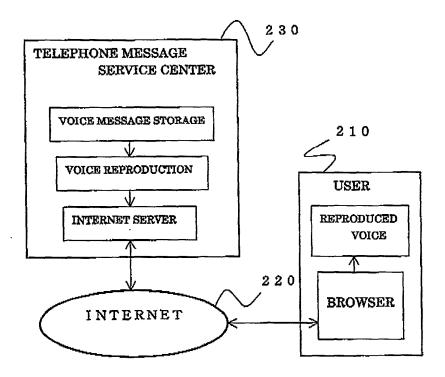
FIG. 3

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2 1

CUSTOMER DATABASE

TEL.NO.	USER ID	PASSWORD	REGISTERING SERVICE		
			MSC		

F I G. 4

3 1

MEMORY DEVICE

MESSAGE STORAGE

CALLED PARTY NO.	RECEPION TIME	CALLING PARTY DATA	LINKED URL	MESSAGE
	⋮			
⋮				
	⋮			

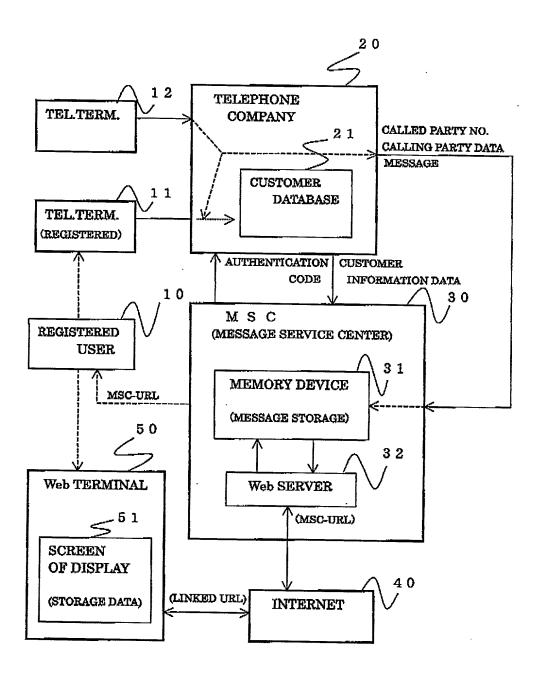**F I G. 5**

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USER PROCEDURE
FOR REGISTRATION REQUEST

REGISTRATION PROCEDURE
IN TELEPHONE COMPANY

```
                          ┌─────────────┐
                          │    START    │
                          └─────────────┘
                                 │
┌─────────────────────┐   ┌─────────────────────────┐
│ REGISTRATION        │   │ RECEIVE REG. REQUEST BY  │  S 1
│         REQUEST     │⇒  │ TEL. NO. OF CALLING PARTY │
│ OF MESSAGE          │   └─────────────────────────┘
│ TRANSFER SERVICE    │              │
└─────────────────────┘   ┌─────────────────────────┐
                          │ REGISTER                 │  S 2
                          │        USER ID & PASSWORD│
                          └─────────────────────────┘
                                     │
┌─────────────────────┐   ┌─────────────────────────┐
│ RECEPTION OF        │   │ SEND                     │  S 3
│ USER ID, PASSWORD, &│⇐  │ USER ID, PASSWORD, &     │
│ URL OF              │   │ URL OF REGISTRATION MSC  │
│    REGISTRATION MSC │   │       TO USER REQUESTING │
│ (CONTRAC WITH TEL. ENT.)└─────────────────────────┘
└─────────────────────┘              │
                          ┌─────────────────────────┐
                          │ REQUEST REGISTRATION     │  S 4
                          │   TO CORRESPONDING MSC   │
                          │ (BEING REGISTERED IN MSC)│
                          └─────────────────────────┘
                                     │
                          ┌─────────────┐
                          │    END      │
                          └─────────────┘
```

F I G. 6

Hiroki HOMMA
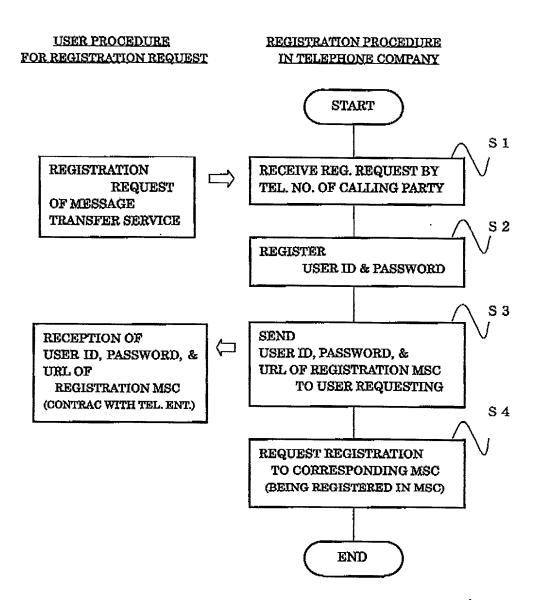"Method of Transferring Message Received and
Stored in the Absence of the User"
Q66038---Filed August 30, 2001
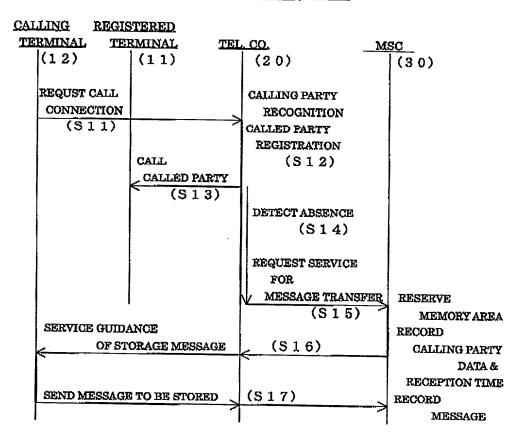Sheets 6 of 13

MESSAGE STORAGE PROCEDURE

CALLING   REGISTERED
TERMINAL   TERMINAL   TEL. CO.   MSC
(12)   (11)   (20)   (30)

REQUST CALL
CONNECTION
(S11)

CALLING PARTY
RECOGNITION
CALLED PARTY
REGISTRATION
(S12)

CALL
CALLED PARTY
(S13)

DETECT ABSENCE
(S14)

REQUEST SERVICE
FOR
MESSAGE TRANSFER   RESERVE
(S15)   MEMORY AREA

RECORD

SERVICE GUIDANCE   CALLING PARTY
OF STORAGE MESSAGE   (S16)   DATA &
RECEPTION TIME

SEND MESSAGE TO BE STORED   (S17)   RECORD
MESSAGE

F I G. 7

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DISPLAY OF Web TERMINAL

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MESSAGE STORAGE DATA		
CALLING PARTY DATA	RECEPTION TIME	LINKED URL

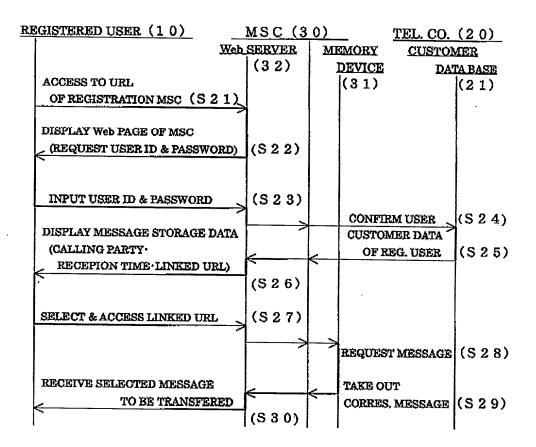F I G. 8

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REGISTERED USER (1 0)   M S C (3 0)   TEL. CO. (2 0)

Web SERVER   MEMORY   CUSTOMER
(3 2)   DEVICE   DATA BASE
                    (3 1)   (2 1)

ACCESS TO URL
 OF REGISTRATION MSC (S 2 1)

DISPLAY Web PAGE OF MSC
 (REQUEST USER ID & PASSWORD)   (S 2 2)

INPUT USER ID & PASSWORD   (S 2 3)

                              CONFIRM USER   (S 2 4)
DISPLAY MESSAGE STORAGE DATA CUSTOMER DATA
(CALLING PARTY·   OF REG. USER (S 2 5)
 RECEPION TIME·LINKED URL)
                           (S 2 6)

SELECT & ACCESS LINKED URL   (S 2 7)

                           REQUEST MESSAGE   (S 2 8)

RECEIVE SELECTED MESSAGE   TAKE OUT
          TO BE TRANSFERED CORRES. MESSAGE (S 2 9)
                           (S 3 0)

F I G. 9

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Stored in the Absence of the User"
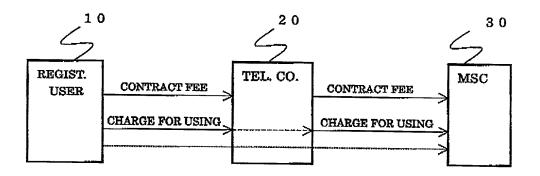Q66038---Filed August 30, 2001
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1 0 **2 0** **3 0**

| REGIST. USER | | TEL. CO. | | MSC |

CONTRACT FEE → CONTRACT FEE →

CHARGE FOR USING → CHARGE FOR USING →

F I G. 1 0

Hiroki HOMMA
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Stored in the Absence of the User"
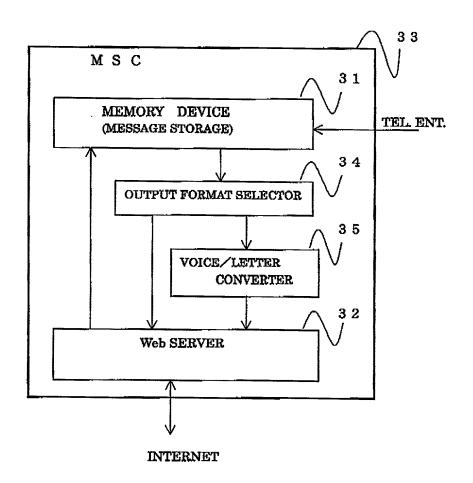Q66038---Filed August 30, 2001
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FIG. 11

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			REGISTERING SERVICE		
TEL. NO.	USER ID	PASSWORD	MSC	E-MAIL (ADDRESS)	

CUSTOMER DATABASE

F I G. 1 2

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MEMORY DEVICE

MESSAGE STORAGE

CALLED PARTY NO.	RECEPION TIME	CALLING PARTY DATA	MESSAGE (TXT FORMAT)
	⋮		
⋮			
	⋮		

F I G. 1 3

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REG. USER (1 0)	INTERNET POP SERVER	MSC (3 3)		TEL. CO. (2 0)
		Web SERVER (3 2)	MEMORY DEVICE (3 6)	CUSRTOMER DATA BASE (2 2)

E-MAIL
REGISTRATION ————————————— (MAIL ADDRESS) ——→ (S 3 1)

STORAGE MESSAGE ←——— (S 3 2)
INQUIRY
OF CUSTOMER DATA ——→ (S 3 3)

MAIL ADDRESS ←——— (S 3 4)

MESSAGE
(STORAGE DATA)
(SEND E-MAIL) ← (S 3 5)

EXPLORE
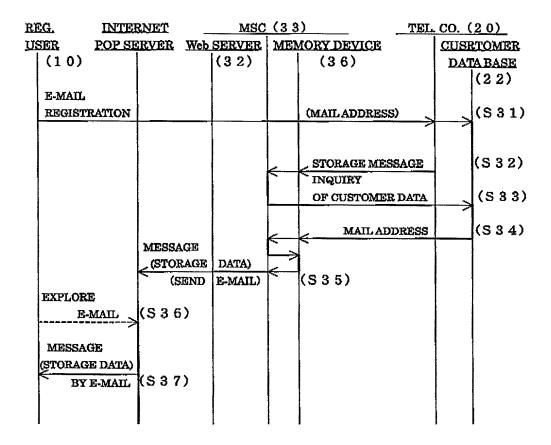E-MAIL ——→ (S 3 6)

MESSAGE
(STORAGE DATA)
BY E-MAIL ← (S 3 7)

FIG. 14

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CUSTOMER DATABASE					
			REGISTERING SERVICE		
TEL. NO.	USER ID	PASSWORD	MSC (CODE)		
			X		

F I G.   1 5

MESSAGE TRANSFER SERVICE CLASSIFICATION

MSC SERVICE CODE	RECEPT. TIME	CALLING PARTY DATA	LINKED URL	MESSAGE FORMAT		
				VOICE	LETTER	IMAGE
0	O	O	O	—	—	—
1	O	O	—	O	—	—
2	O	O	—	—	O	—
3	O	O	—	O	—	O
4	O	O	—	—	O	O

F I G.   1 6